

# Using Math to Calculate the Cost of Evacuating New Orleans

## Evacuating By Car

1. The driving distance between New Orleans, LA to Concord, NH is 1,568 miles. If you drove an average car you would need about 52 gallons of fuel to make the trip. The average price of gasoline in New Orleans the week before Hurricane Katrina was \$2.40 a gallon. How much money would it cost to drive to Concord, NH?
2. If you drove an SUV you would need 78 gallons to make the trip (heavy cars need more fuel.) Calculate this cost.
3. If you drove a fuel efficient car you would only need 35 gallons. Calculate this cost.

After Hurricane Katrina hit gas prices shot up to over \$3.89 a gallon.

1. How much would the trip cost if you traveled to Concord, NH a few weeks after the storm? Recalculate your trip using \$3.89 per gallon.
2. What is the cost of gasoline today? Calculate how much money it would take you to make the trip today.

Leaving from Concord, NH you would reach New Orleans, LA in about 23 hours 10 minutes if you keep an average speed of 68 miles per hour, assuming you don't make any breaks or get stuck in traffic.

To view a map of your drive check out this website:

<http://distances.io/distance/concord-nh/new-orleans-la>

## Evacuating By Plane

If you traveled by airplane how much would it cost you?

Zane and Miss Trissy would need to leave New Orleans from Louis Armstrong New Orleans International Airport. To take a taxi cab from the Lower Ninth Ward to the airport would cost them \$49.89 without traffic and \$69.15 with heavy traffic.

Check out this website and calculate the cost of two tickets to Manchester, New Hampshire (which is the closest airport to Concord, New Hampshire.)

<http://distances.io/flying/concord-nh/new-orleans-la>

1. Check flights and determine the cost to leave today. What would a one way ticket cost versus a return flight ticket. (Flight costs vary from day to day)  
<http://distances.io/flying/concord-nh/new-orleans-la>
2. The airport is 20 miles from Zane's house. Calculating the prices of gasoline before Hurricane Katrina hit (\$2.40 per gallon) how much would the last part of the trip cost.
3. It costs on average an additional \$100 to fly with a pet.
4. What is the total cost for Zane and Miss Trissy to evacuate to New Hampshire by plane. (Remember to calculate the taxi cab fare.)

The flying distance between Concord, NH and New Orleans, LA is 1,373 miles, and estimated flying time is around 2 hours 57 minutes. It would take about 30 minutes to travel from the Lower Ninth Ward to the Louis Armstrong International Airport (without traffic) and 26 minutes to drive from the Manchester Airport to Concord, NH. How long would it take Zane and Miss Trissy to arrive at Zane's house?

### In-Cabin Dogs

Small dogs, typically those able to fit comfortably in a pet carrier stored under an aircraft seat, are able to travel in the passenger cabin on several airlines. The fee for in-cabin pets varies by airline. As of publication United, Delta and American Airlines charge \$125 for flights in the United States and most international flights in North America; Spirit Airlines charges \$100 for domestic flights; Southwest requires payment of \$75 for each in-cabin pet; and AirTran's pet fee is \$69. Most airlines require advance reservations for pet travel, and in some cases taxes and fees are added to the cost of the dog's in-cabin ticket.

### Dogs as Checked Baggage

Dogs that meet airline requirements, including breed and size restrictions, are able to travel as checked baggage on certain airlines. Most airlines prohibit pet travel during the warmer months and on long flights, and each airline sets its own fee, with prices varying widely. For example, as of publication, United charges \$250 for any dog flying as checked baggage, Delta charges \$200 on all flights and American Airlines requires \$175 for domestic flights and most flights throughout North, Central and South America, as well as the Caribbean.